

Untitled

title: US-10-536-935A-1  
Perfect score: 1497  
Sequence: 1 at ggcaacagt acat cagaa. . . . . gaat at t cat t aagct at aa 1497

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RESULT 1  
ABL88606  
ID ABL88606 standard; DNA; 1497 BP.  
XX  
AC ABL88606;  
XX  
DT 20-MAY-2002 (first entry)  
XX  
DE Fungal cell wall synthesis related polynucleotide SEQ ID NO 1.  
XX  
KW Fungi; transport; GPI anchor protein; cell wall; biosynthesis; fungicide;  
KW antifungal; 1-(4-n-butylbenzyl)isoquinoline; gene; ds.  
XX  
OS Saccharomyces cerevisiae.  
XX  
PN WO200204626-A1.  
XX  
PD 17-JAN-2002.  
XX  
PF 06-JUL-2001; 2001WO-JP005899.  
XX  
PR 07-JUL-2000; 2000JP-00206968.  
PR 17-OCT-2000; 2000JP-00316027.  
XX  
PA (EISA) EISAI CO LTD.  
XX  
PI Tsukahara K, Hata K, Sagane K, Nakamoto K, Tsuchiya M,  
PI Watanabe N, Oba F, Tsukada I, Ueda N, Tanaka K, Kai J;  
XX  
DR WPI; 2002-241441/29.  
DR P-PSDB; ABB88538.  
XX  
PT Fungal cell wall synthesis gene encoding protein related to transport  
PT process of GPI anchor protein to cell wall, useful in screening  
PT inhibitors for development into antifungal agents.  
XX  
PS Claim 1; Page 213-216; 297pp; Japanese.  
XX  
CC The invention relates to a DNA overexpressed in fungi that encodes a  
CC protein imparting tolerance to compounds that inhibit the transport  
CC process of the GPI anchor protein to the cell wall in fungi. The  
CC inhibitors have fungicide activity through inhibition of fungal cell wall  
CC synthesis. The gene and encoded protein are useful in screening for  
CC inhibitors for development into antifungal agents, particularly for  
CC patients with opportunistic fungal infection. A gene imparting tolerance  
CC to e.g. 1-(4-n-butylbenzyl)isoquinoline can be identified. Such  
CC antifungals are likely to be more effective because of its novel  
CC mechanism of action. The present sequence is that of a polynucleotide of  
CC the invention  
XX  
SQ Sequence 1497 BP; 429 A; 269 C; 275 G; 524 T; 0 U; 0 Other;

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Query Match 100.0% Score 1497; DB 6; Length 1497;  
 Best Local Similarity 100.0% Pred. No. 0;  
 Matches 1497; Conservative 0; M smatches 0; Indels 0; Gaps 0;

Qy	1	ATGGCAACAGTACATCAGAAGAATATGTGACTTTAAAACAGAGAAAAGAGGACTTTGTG	60
Db	1	ATGGCAACAGTACATCAGAAGAATATGTGACTTTAAAACAGAGAAAAGAGGACTTTGTG	60
Qy	61	ACAGGGCTCAATGGCGGTTCTATAACAGAAATTAAOCGAGTGACATCAATTGCTTTGGTA	120
Db	61	ACAGGGCTCAATGGCGGTTCTATAACAGAAATTAAOCGAGTGACATCAATTGCTTTGGTA	120
Qy	121	ACTTACATATCATGGAACCTTATTGAAAAATTCCAAOCTTATGOCTOCTGGCATTTCACAGC	180
Db	121	ACTTACATATCATGGAACCTTATTGAAAAATTCCAAOCTTATGOCTOCTGGCATTTCACAGC	180
Qy	181	GTGCAATACATAATTGATTTTGCATTGAACTGGGTTGCTTTGCTTCTATCTATTACTATT	240
Db	181	GTGCAATACATAATTGATTTTGCATTGAACTGGGTTGCTTTGCTTCTATCTATTACTATT	240
Qy	241	TATGCTAGTGAOCCATAOCTTCTAAACAGCTAATACTGTTAOCTTGTTTGCTCGCATTTC	300
Db	241	TATGCTAGTGAOCCATAOCTTCTAAACAGCTAATACTGTTAOCTTGTTTGCTCGCATTTC	300
Qy	301	ATATATGGAAAATTTACTAGCTOGAGTAAOCTTCTAATCCAATATACAATAAAAAAAAAA	360
Db	301	ATATATGGAAAATTTACTAGCTOGAGTAAOCTTCTAATCCAATATACAATAAAAAAAAAA	360
Qy	361	ATGATTACACAGCGGTTCCAACTAGAAAAAAGOOGTATATTACTGOGTATOGTGGTGGG	420
Db	361	ATGATTACACAGCGGTTCCAACTAGAAAAAAGOOGTATATTACTGOGTATOGTGGTGGG	420
Qy	421	ATGCTTATTCTGACTGCTATTGOCATCTTGGCTGTAGATTTTCCAATTTTCCCAAGGAGG	480
Db	421	ATGCTTATTCTGACTGCTATTGOCATCTTGGCTGTAGATTTTCCAATTTTCCCAAGGAGG	480
Qy	481	TTTGCCAAGGTGGAACTTGGGGGACATCOCTGATGGATCTTGGTGTAGGATCATTCGTT	540
Db	481	TTTGCCAAGGTGGAACTTGGGGGACATCOCTGATGGATCTTGGTGTAGGATCATTCGTT	540
Qy	541	TTGAGTAAOGGTATTGTTTCTTCTAGGGCACTGTTGAAAAOCTAAGCTTGAAGAGTAAA	600
Db	541	TTGAGTAAOGGTATTGTTTCTTCTAGGGCACTGTTGAAAAOCTAAGCTTGAAGAGTAAA	600
Qy	601	CCCAGCTTCTTAAAAAATGCATTTAATGOCTTAAAATCAGGAGGAACTCTATTGTTCTTA	660
Db	601	CCCAGCTTCTTAAAAAATGCATTTAATGOCTTAAAATCAGGAGGAACTCTATTGTTCTTA	660
Qy	661	GGATTGCTGAGGTTGTTTTTTGTAAAAAATTTGGAATATCAAGAACATGTCACAGAATAT	720
Db	661	GGATTGCTGAGGTTGTTTTTTGTAAAAAATTTGGAATATCAAGAACATGTCACAGAATAT	720
Qy	721	GGGGTTTATTGGAATTTTTTTATCACOCTATCATTGTTGCCACTTGTATTGACCTTTATT	780
Db	721	GGGGTTTATTGGAATTTTTTTATCACOCTATCATTGTTGCCACTTGTATTGACCTTTATT	780
Qy	781	GATCCCGTCACAAGAATGGTTCCACGCTGCTCAATTGCAATATTCATTTTCATGCATTTAT	840
Db	781	GATCCCGTCACAAGAATGGTTCCACGCTGCTCAATTGCAATATTCATTTTCATGCATTTAT	840
Qy	841	GAATGGCTACTTTTAAAGGAOGATOGCACTTTAACTTTTTAATTTTGGCTGATAGAAAT	900

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Db	841	GAATGGCTACTTTTAAAGGACGATCGCACTTTAAACTTTTAAATTTTGGCTGATAGAAAT	900
Qy	901	TGTTTTCTTCAGTGCTAATAGAGAAGGCATCTTCTCATTTCTAGGTTATTGCTCGATTTTT	960
Db	901	TGTTTTCTTCAGTGCTAATAGAGAAGGCATCTTCTCATTTCTAGGTTATTGCTCGATTTTT	960
Qy	961	CTTTGGGGCCAAAACACGGGATTTTACTTGTTGGGAAATAAACCAACTTTAAACAATCTT	1020
Db	961	CTTTGGGGCCAAAACACGGGATTTTACTTGTTGGGAAATAAACCAACTTTAAACAATCTT	1020
Qy	1021	TATAAGCCTTCTACGCAAGACGTAGTTGCAGCATCAAAGAAGTCTTGGACTTGGGACTAT	1080
Db	1021	TATAAGCCTTCTACGCAAGACGTAGTTGCAGCATCAAAGAAGTCTTGGACTTGGGACTAT	1080
Qy	1081	TGGACTTCAGTAACCCCATTAAGTGGCCTCTGTATATGGAGTACAATTTTTCTTGTTATC	1140
Db	1081	TGGACTTCAGTAACCCCATTAAGTGGCCTCTGTATATGGAGTACAATTTTTCTTGTTATC	1140
Qy	1141	AGCCAGTTGGTTTTTCAATACCATCCTTATAGTGTTCGAAGAAGGTTTGCTAACTTACCA	1200
Db	1141	AGCCAGTTGGTTTTTCAATACCATCCTTATAGTGTTCGAAGAAGGTTTGCTAACTTACCA	1200
Qy	1201	TATACTTTGTGGGTCACTTACTTATAATTTACTATTTTTGACTGGGTACTGCTTGACTGAC	1260
Db	1201	TATACTTTGTGGGTCACTTACTTATAATTTACTATTTTTGACTGGGTACTGCTTGACTGAC	1260
Qy	1261	AAAATTTTGGTAATTCTTGGGAATATTATAAAGTTGCGAATGCTTGGAATCAATCAAC	1320
Db	1261	AAAATTTTGGTAATTCTTGGGAATATTATAAAGTTGCGAATGCTTGGAATCAATCAAC	1320
Qy	1321	TCCAATGGGTGTTTTTATTTTTGTTGGCAAATGTCTCTACTGGTTTAGTCAATATGTCT	1380
Db	1321	TCCAATGGGTGTTTTTATTTTTGTTGGCAAATGTCTCTACTGGTTTAGTCAATATGTCT	1380
Qy	1381	ATGGTCACGATAGATTCTTCACCCCTTAAAATCATTOCTGGTTTTGTTGGCATACTGCTCA	1440
Db	1381	ATGGTCACGATAGATTCTTCACCCCTTAAAATCATTOCTGGTTTTGTTGGCATACTGCTCA	1440
Qy	1441	TTCATAGCTGTCATATCGGTTTTCTTGATAGAAAAAGAATATTCATTAAGCTATAA	1497
Db	1441	TTCATAGCTGTCATATCGGTTTTCTTGATAGAAAAAGAATATTCATTAAGCTATAA	1497